

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	MAIL STOP PATENT APPLICATION
Charles M. BUCHANAN et al.)	Group Art Unit: Unassigned
Application No.: Unassigned)	Examiner: Unassigned
(Divisional of Appl. No. 10/042,306))	Confirmation No.: Unassigned
Filed: June 24, 2003)	
For: CYCLODEXTRIN SULFONATES,)	
GUEST INCLUSION COMPLEXES,)	
METHODS OF MAKING THE SAME)	
AND RELATED MATERIALS)	

**FIRST INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.


- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$_____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$_____ is enclosed for the fee due.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: June 24, 2003

By: 
Nhat D. Phan
Registration No. 39,581

P.O. Box 1404
Alexandria, VA 22313-1404
703/836-6620

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	MAIL STOP PATENT APPLICATION
)	
Charles M. BUCHANAN et al.)	Group Art Unit: Unassigned
)	
Application No.: Unassigned)	Examiner: Unassigned
(Divisional of Appl. No. 10/042,306))	
)	Confirmation No.: Unassigned
Filed: June 24, 2003)	
)	
For: CYCLODEXTRIN SULFONATES,)	
GUEST INCLUSION COMPLEXES,)	
METHODS OF MAKING THE SAME)	
AND RELATED MATERIALS)	

FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

U.S. Patent Documents

U.S. Patent No.	3,426,011
U.S. Patent No.	5,134,127
U.S. Patent No.	5,162,590
U.S. Patent No.	5,376,645
U.S. Patent No.	5,874,418
U.S. Patent No.	6,046,177
U.S. Patent No.	6,479,467

Non-Patent Literature Documents

BRIGHT, Samuel C., et al., "Alkane Sulphonate Preparation by the Sulphitation of Long Chain Olefins," *J. Appl. Chem. Biotechnol.*, 1975, pp. 901-912, Vol. 25

CHANKVETADZE, Bezhan, et al., "Enantiomeric resolution of anionic *R/S*-1,1' -binaphthyl-2,2' -diyl hydrogen phosphate by capillary electrophoresis using anionic cyclodextrin derivatives as chiral selectors," *J. Chromatogr. A*, 1995, pp. 234-237, Vol. 704

HERKE, Robert, et al., "Addition of Bisulfite to α -Olefins: Synthesis of n-Alkana Sulfonates and Characterization of Intermediates," *JAOCs*, January 1992, pp. 47-51, Vol. 69, No. 1

KHARASCH, M.S., et al., "The Peroxide Effect in the Addition of Reagents to Unsaturated Compounds. XVIII. The Addition and Substitution of Bisulfite," *J. Org. Chem.*, 1939, pp. 175-192, Vol. 3

LEYDET, Alain, et al., "Polyanion Inhibitors of HIV and Other Viruses. 7. Polyanionic Compounds and Polyzwitterionic Compounds Derived from Cyclodextrins as Inhibitors of HIV Transmission," *J. Med. Chem.*, 1998, pp. 4927-4932, Vol. 41, No. 25

MARTINELLI, Michael J., et al., "Selective monosulfonylation of internal 1,2-diols catalyzed by di-*n*-butyltin oxide," *Tetrahedron Letters*, 2000, pp. 3773-3776, Vol. 41

NORTON, Charles J., et al., "Alkanesulfonate Synthesis. I. Ion Catalysis of Sulfite Radical-Ion Addition to Olefins," *J. Organic Chemistry*, November 1968, pp. 4158-4165, Vol. 33, No. 11

TAIT, R. J., et al., "Sulfobutyl Ether β -Cyclodextrin as a Chiral Discriminator for Use with Capillary Electrophoresis," *Analytical Chemistry*, November 15, 1994, pp. 4013-4018, Vol. 66, No. 22

TERABE, Shigeru, et al., "Electrokinetic Chromatography With 2-O-Carboxymethyl- β -Cyclodextrin as a Moving 'Stationary' Phase," *Journal of Chromatography*, 1985, pp. 211-217, Vol. 332

UEKAMA, Kaneto, et al., "Cyclodextrin Drug Carrier Systems," *Chem. Rev.*, 1998, pp. 2045-2076, Vol. 98, No. 5

WENZ, Gerhard, et al., "Synthesis of highly water-soluble cyclodextrin sulfonates by addition of hydrogen sulfite to cyclodextrin allyl ethers," *Carbohydrate Research*, 1999, pp. 153-165, Vol. 322

This information is being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since the information is being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

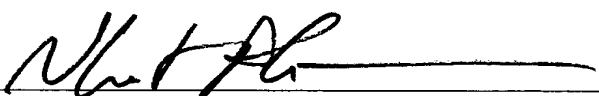
Copies of the listed documents were made of record in prior U.S. Application No. 10/042,306, filed January 11, 2002. In accordance with 37 C.F.R. § 1.98(d), copies of the listed documents are not included.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: June 24, 2003

By: 
Nhat D. Phan
Registration No. 39581

P.O. Box 1404
Alexandria, VA 22313-1404
703/836-6620

Substitute for forms 1449A/PTO & 1449B/PTO FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTORNEY'S DKT NO. 008111-155	APPLICATION No. Unassigned (Divisional of 10/042,306)
	APPLICANT Charles M. BUCHANAN et al.	
	FILING DATE June 24, 2003	GROUP Unassigned

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	3,426,011		Parmerter et al.	02/04/1969
	5,134,127		Stella et al.	07/28/1992
	5,162,590		Fischer et al.	11/10/1992
	5,376,645		Stella et al.	12/27/1994
	5,874,418		Stella et al.	02/23/1999
	6,046,177		Stella et al.	04/04/2000
	6,479,467		Buchanan et al.	11/2002

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No

NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	SAMUEL C. BRIGHT, et al., "Alkane Sulphonate Preparation by the Sulphitation of Long Chain Olefins," <i>J. Appl. Chem. Biotechnol.</i> , 1975, pp. 901-912, Vol. 25
	BEZHAN CHANKVETADZE, et al., "Enantiomeric resolution of anionic <i>R/S</i> -1,1'-binaphthyl-2,2'-diyl hydrogen phosphate by capillary electrophoresis using anionic cyclodextrin derivatives as chiral selectors," <i>J. Chromatogr. A</i> , 1995, pp. 234-237, Vol. 704
	ROBERT HERKE, et al., "Addition of Bisulfite to α -Olefins: Synthesis of n-Alkana Sulfonates and Characterization of Intermediates," <i>JAOCS</i> , January 1992, pp. 47-51, Vol. 69, No. 1
	M.S. KHARASCH, et al., "The Peroxide Effect in the Addition of Reagents to Unsaturated Compounds. XVIII. The Addition and Substitution of Bisulfite," <i>J. Org. Chem.</i> , 1939, pp. 175-192, Vol. 3
	ALAIN LEYDET, et al., "Polyanion Inhibitors of HIV and Other Viruses. 7. Polyanionic Compounds and Polyzwitterionic Compounds Derived from Cyclodextrins as Inhibitors of HIV Transmission," <i>J. Med. Chem.</i> , 1998, pp. 4927-4932, Vol. 41, No 25
	MICHAEL J. MARTINELLI, et al., "Selective monosulfonylation of internal 1,2-diols catalyzed by di- <i>n</i> -butyltin oxide," <i>Tetrahedron Letters</i> , 2000, pp. 3773-3776, Vol. 41
	CHARLES J. NORTON, et al., "Alkanesulfonate Synthesis. I. Ion Catalysis of Sulfite Radical-Ion Addition to Olefins," <i>J. Organic Chemistry</i> , November 1968, pp. 4158-4165, Vol. 33, No. 11
	R. J. TAIT, et al., "Sulfobutyl Ether β -Cyclodextrin as a Chiral Discriminator for Use with Capillary Electrophoresis," <i>Analytical Chemistry</i> , November 15, 1994, pp. 4013-4018, Vol. 66, No. 22
	SHIGERU TERABE, et al., "Electrokinetic Chromatography With 2-O-Carboxymethyl- β -Cyclodextrin as a Moving 'Stationary' Phase," <i>Journal of Chromatography</i> , 1985, pp. 211-217, Vol. 332
	KANETO UEKAMA, et al., "Cyclodextrin Drug Carrier Systems," <i>Chem. Rev.</i> , 1998, pp. 2045-2076, Vol. 98, No. 5
	GERHARD WENZ, et al., "Synthesis of highly water-soluble cyclodextrin sulfonates by addition of hydrogen sulfite to cyclodextrin allyl ethers," <i>Carbohydrate Research</i> , 1999, pp. 153-165, Vol. 322

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **SEND TO:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.